

Ford Bolted Flex Couplings



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Ford Bolted Coupling Numbering System

TYPE OF COUPLING

- FC1** = Ductile Iron Coupling
- FC2A** = Ductile Iron Transition Coupling
- FIB** = Insulating Boot for Ductile Iron Pipe & Cast Iron Pipe
- FRC** = Iron Reducing Coupling
- FFCA** = Iron Flanged Coupling Adapter
- FRR** = Cut-in Coupling
- FEC** = End Cap Coupling

OPTIONAL FEATURES

FOR FC1 & FC2A COUPLINGS

- SH** = Stainless Steel Nuts & Bolts
- ESH** = Stainless Steel Nuts & Bolts with Epoxy coated coupling
- N** = Buna -N Gaskets, alloy bolts & nuts with shop coated coupling

FOR FFCA COUPLING ADAPTERS

- AS2** = 2 optional anchor studs
- AS4** = 4 optional anchor studs

FC1 - 690 - 720 - SH

one end ↑

↑ other end

OD SIZE

Use listed Catalog sizes
 NOTE: For most coupling types
 each number indicates top end of
 range, only FC1 and FC2A have an
 OD Size for each coupling end.

Note: See item listings in catalog section to assure that desired sizes and options are available



Information

Features of Ford Cast Couplings

Ford Cast Couplings offer an easy and economical way of joining pipe whether the pipe is of the same nominal size and/or type or different at each coupling end. All Ford Couplings offer the following quality features:

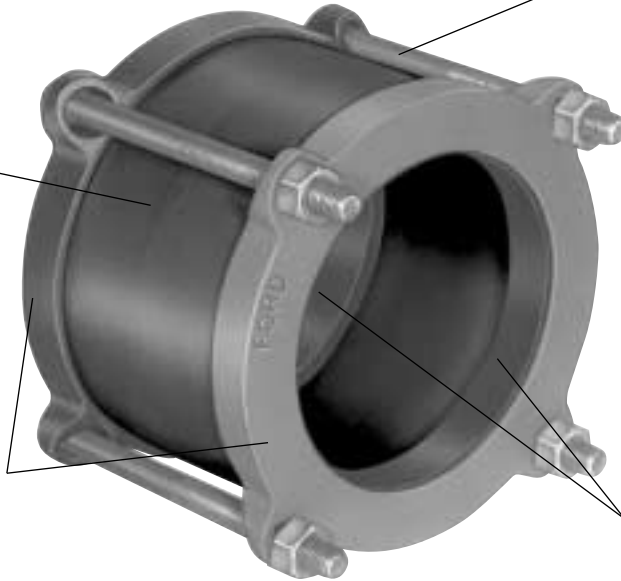
Ford Bolted Flex Couplings as listed in Catalog Section M are manufactured in accordance with the design, testing and performance standards of AWWA C219-91.

Center Sleeve optimized to accommodate a variety of pipe sizes.

5/8" Bolts and Heavy Hex Nuts. Optional Stainless Steel also available.

End Rings color coded to match correct gaskets. One End Ring and gasket combination will fit standard PVC and Ductile Iron Size PVC in 4", 6" and 8" nominal sizes.

Gaskets identified with range and End Ring Color Code

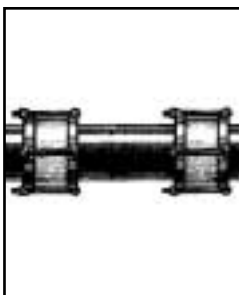


Specifications:

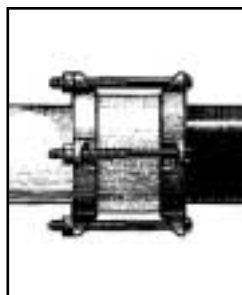
Ford Bolted Flex Couplings as listed in Catalog Section M are manufactured in accordance with the design, testing and performance standards of AWWA C219-91.

- Center Sleeve** - Cast from Ductile Iron per ASTM A536 65-45-12.
- End Rings** - Cast from Ductile Iron per ASTM A536 65-45-12. End rings are color coded for easy identification.
- Gaskets** - SBR rubber per ASTM D2000 90M 4AA 810. Gaskets have size and end ring color code embossed for easy identification. Optional armored gaskets are available on Style FC1 and Style FC2A in 4" thru 12" nominal pipe sizes. Optional Buna-N gaskets are available.
- Bolts and Heavy Hex Nuts** - High strength low alloy per ASTM A242 and AWWA C111. Optional Stainless Steel bolts are available.
- Finish** - Shop coat. Optional epoxy coating is available.

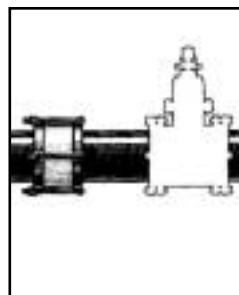
Typical Uses for Ford Cast Couplings



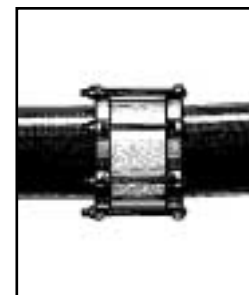
To repair split pipe



To couple different types of pipe



To install (cut-in) hydrants and valves



To connect misaligned pipe

Ford Couplings

Style FC1



Style FC1 for Cast, Ductile Iron or PVC Pipe

Ford FC1 Couplings are ideally suited for mainline pipe usage because the center ring I.D. tolerances are tighter to better control vibration and misalignment problems.

Suggested uses for Ford FC1 Couplings include water main repair, joining of plain end pipe, valve and hydrant installation, and flexible joint installation at critical areas of water main stress.

They are constructed entirely of ductile iron components for light and easy handling. Modern technology and materials have enabled us to reduce the number of bolts required without compromising pressure ratings up to 300 psi. FC1 components are also interchangeable for better, more cost-effective inventory management.

Only the FC1 offers one gasket and end ring that fits all PVC and ductile iron pipe in the most popular sizes: 4", 6", and 8". Gasket ranges are embossed on each gasket for easy identification. End rings are color coded to match the color embossed on each gasket.

NOM. PIPE SIZE	GASKET RANGE		END RING COLOR CODE	BY	GASKET RANGE		END RING COLOR CODE	CENTER SLEEVE LENGTH	NUMBER OF BOLTS	APPROX. WEIGHT LBS
	1ST. HALF CAT. NO.	2ND HALF CAT. NO.			1ST. HALF CAT. NO.	2ND HALF CAT. NO.				
2"	2.34 — 2.63	2.63	Red		2.34 — 2.63	2.63	Red	4"	2	6
2 1/2"	See 2" FC2A on next page									
4"	4.00 — 4.80	4.00	Red		4.00 — 4.80	4.00	Red	5"	3	14
	4.50 — 4.80	4.80	Red		4.50 — 4.80	4.80	Red			
	4.80 — 5.10	5.10	Black		4.80 — 5.10	5.10	Black			
6"	6.00 — 6.30	6.00	Red		6.00 — 6.30	6.00	Red	5"	4	20
	6.30 — 6.63	6.30	Red		6.30 — 6.63	6.30	Red			
	6.63 — 6.90	6.90	Red		6.63 — 6.90	6.90	Red			
	6.90 — 7.20	7.20	Black		6.90 — 7.20	7.20	Black			
8"	8.00 — 8.16	8.00	Red		8.00 — 8.16	8.00	Red	5"	5	28
	8.16 — 8.63	8.40	Red		8.16 — 8.40	8.40	Red			
	8.63 — 9.05	9.05	Red		8.63 — 9.05	9.05	Red			
	9.05 — 9.40	9.40	Black		9.05 — 9.40	9.40	Black			
10"	10.20 — 10.75	10.50	Red		10.20 — 10.75	10.50	Red	6"	6	41.5
	10.75 — 11.10	10.75	Red		10.75 — 11.10	10.75	Red			
	11.10 — 11.46	11.46	Black		11.10 — 11.46	11.46	Black			
12"	12.24 — 12.75	12.50	Red		12.24 — 12.75	12.50	Red	6"	7	54.5
	12.75 — 13.20	12.75	Red		12.75 — 13.20	12.75	Red			
	13.20 — 13.56	13.56	Black		13.20 — 13.56	13.56	Black			

To Order: Locate the gasket range that accommodates your pipe O.D. for both pipe ends. Use the top range of each gasket size to determine the part number. For example: to connect pipe with an O.D. of 6.63 to a pipe with an O.D. of 7.20, the Catalog Number is FC1-690-720.

- Options:** **SH** Standard coated coupling with **stainless steel nuts and bolts**: add "-SH" to the Catalog Number.
ESH Epoxy coated coupling with **stainless steel nuts and bolts**: add "-ESH" to the Catalog Number
N Buna-N gasket, standard coated coupling and standard alloy bolts. Add "-N" to the Catalog Number.
Example: FC1-690-720-ESH is an FC1 coupling with epoxy coating and stainless steel nuts and bolts

Component Parts for Style FC1 Coupling

NOM. PIPE SIZE	GASKET CAT. NO.	END RING CAT. NO.	CENTER SLEEVE CAT. NO.	BOLT AND NUT CAT. NO.
2"	FC1G-234-263	FC1-RER-2	FC1-CS-2	FBN-58-65
	FC1G-400	FC1-RER-4		
4"	FC1G-450-480	FC1-RER-4	FC1-CS-4	FBN-58-8
	FC1G-480-510	FC1-BER-4		
	FC1G-600	FC1-RER-6		
6"	FC1G-630	FC1-RER-6	FC1-CS-6	FBN-58-8
	FC1G-663-690	FC1-RER-6		
	FC1G-690-720	FC1-BER-6		
	FC1G-800	FC1-RER-8		
8"	FC1G-816-840	FC1-RER-8	FC1-CS-8	FBN-58-8
	FC1G-863-905	FC1-RER-8		
	FC1G-905-940	FC1-BER-8		
	FC1G-1020-1050	FC1-RER-10		
10"	FC1G-1075	FC1-RER-10	FC1-CS-10	FBN-58-9
	FC1G-1110-1146	FC1-BER-10		
	FC1G-1224-1250	FC1-RER-12		
12"	FC1G-1275	FC1-RER-12	FC1-CS-12	FBN-58-9
	FC1G-1320-1356	FC1-BER-12		
	FC1G-1320-1356	FC1-BER-12		

Ford Transition Couplings

Style FC2A

Ford Iron Transition Couplings provide a convenient method of joining two pipes of the same nominal size but with different O.D.s. Gaskets and End Rings are color coded for easy identification. End Rings are color coded for various pipe sizes per the following chart. The gaskets are identified with the exact O.D. range and the End Ring color with which it is to be used. Generally Red signifies use on steel size PVC, Black for iron pipe and Class 150 A/C, and White for Class 200 A/C. See the table below for exact ranges. Larger, Fabricated Steel Couplings are detailed in Catalog Section N.



NOM. PIPE SIZE	GASKET RANGE		END RING COLOR CODE	BY	GASKET RANGE		END RING COLOR CODE	CENTER SLEEVE LENGTH	NUMBER OF BOLTS	APPROX. WEIGHT LBS
	1ST. HALF CAT. NO.	2ND HALF CAT. NO.			1ST. HALF CAT. NO.	2ND HALF CAT. NO.				
2"	2.30 —	2.45	Black	X	2.30 —	2.45	Black	4"	2	9
	2.40 —	2.65	Black		2.40 —	2.65	Black			
	2.65 —	2.88	Black		2.65 —	2.88	Black			
3"	3.13 —	3.13	Red	X	3.13 —	3.13	Red	4"	3	14
	3.45 —	3.60	Red		3.45 —	3.60	Red			
	3.70 —	3.88	Black		3.70 —	3.88	Black			
	3.91 —	4.06	Black		3.91 —	4.06	Black			
	4.07 —	4.20	Black		4.07 —	4.20	Black			
4"	4.00 —	4.00	Red	X	4.00 —	4.00	Red	5"	3	16
	4.50 —	4.50	Red		4.50 —	4.50	Red			
	4.80 —	5.14	Black		4.80 —	5.14	Black			
	5.15 —	5.57	White/Gray		5.15 —	5.57	White/Gray			
6"	6.00 —	6.00	Red	X	6.00 —	6.00	Red	5"	4	24
	6.63 —	6.63	Red		6.63 —	6.63	Red			
	6.90 —	7.20	Black		6.90 —	7.20	Black			
	7.21 —	7.56	White/Gray		7.21 —	7.56	White/Gray			
8"	8.00 —	8.00	Red	X	8.00 —	8.00	Red	5"	5	34
	8.63 —	8.63	Red		8.63 —	8.63	Red			
	9.05 —	9.40	Black		9.05 —	9.40	Black			
	9.40 —	9.74	White/Gray		9.40 —	9.74	White/Gray			
10"	10.00 —	10.00	Red	X	10.00 —	10.00	Red	6"	6	48
	10.75 —	10.75	Red		10.75 —	10.75	Red			
	11.10 —	11.40	Black		11.10 —	11.40	Black			
	11.42 —	11.77	Black		11.42 —	11.77	Black			
	11.77 —	12.12	White/Gray		11.77 —	12.12	White/Gray			
12"	12.00 —	12.00	Black	X	12.00 —	12.00	Black	6"	7	56
	12.75 —	12.75	Black		12.75 —	12.75	Black			
	13.20 —	13.50	Black		13.20 —	13.50	Black			
	13.69 —	14.04	White/Gray		13.69 —	14.04	White/Gray			
	14.03 —	14.38	White/Gray		14.03 —	14.38	White/Gray			
14"	15.30 —	15.70	Black	X	15.30 —	15.70	Black	6"	9	83
	16.00 —	16.35	Red		16.00 —	16.35	Red			
	16.40 —	16.88	White/Gray		16.40 —	16.88	White/Gray			
16"	17.40 —	17.80	Black	X	17.40 —	17.80	Black	6"	10	103
	18.45 —	18.97	White/Gray		18.45 —	18.97	White/Gray			
	18.90 —	19.20	White/Gray		18.90 —	19.20	White/Gray			
18"	19.50 —	20.00	Black	X	19.50 —	20.00	Black	7"	11	118
20"	21.60 —	22.06	Black	X	21.60 —	22.06	Black	7"	12	137
24"	25.80 —	26.32	Black	X	25.80 —	26.32	Black	10"	14	211

To Order: Locate the gasket range that accommodates your pipe O.D. for both ends of pipe. Use the top range of each gasket size to determine the part number. For example: to connect pipe with an O.D. of 6.90 to a pipe with an O.D. of 7.37, the Catalog Number is FC2A-720-756.

Options: **SH** Standard coated coupling with **stainless steel nuts and bolts**: add "-SH" to the Catalog Number.

ESH Epoxy coated coupling with **stainless steel nuts and bolts**: add "-ESH" to the Catalog Number.

N Buna-N gasket, standard coated coupling and standard alloy bolts. Add "-N" to the Catalog Number.

Example for Above Options: FC2A-690-720-ESH is an FC2A coupling with epoxy coating and stainless steel nuts and bolts.

Gasket for SDR 35 Sewer Pipe: Gaskets are available in following sizes : 4.22", 6.23", 8.40", 10.50" and 12.50". Use these sizes as part of the Catalog Number.

Ford Transition Coupling Parts

Style FC2A



Component Parts for Style FC2A Coupling

NOM. PIPE SIZE	GASKET CATALOG No.	END RING CATALOG No.	CENTER SLEEVE CATALOG No.	BOLT AND NUT CATALOG No.	BOLT AND NUT SIZE	NUMBER REQUIRED
2"	FC2AG-230-245	FC2A-BER-2	FC2A-CS-2	FBN-58-65	5/8" x 6-1/2"	2
	FC2AG-240-265	FC2A-BER-2				
	FC2AG-265-288	FC2A-BER-2				
3"	FC2AG-313	FC2A-RER-3	FC2A-CS-3	FBN-58-65	5/8" x 6-1/2"	3
	FC2AG-345-360	FC2A-RER-3				
	FC2AG-370-388	FC2A-BER-3				
	FC2AG-391-406	FC2A-BER-3				
	FC2AG-407-420	FC2A-WER-3				
4"	FC2AG-400	FC2A-RER-4	FC2A-CS-4	FBN-58-8	5/8" x 8"	3
	FC2AG-450	FC2A-RER-4				
	FC2AG-480-514	FC2A-BER-4				
	FC2AG-515-557	FC2A-WER-4				
6"	FC2AG-600	FC2A-RER-6	FC2A-CS-6	FBN-58-8	5/8" x 8"	4
	FC2AG-663	FC2A-RER-6				
	FC2AG-690-720	FC2A-BER-6				
	FC2AG-721-756	FC2A-WER-6				
8"	FC2AG-800	FC2A-RER-8	FC2A-CS-8	FBN-58-8	5/8" x 8"	5
	FC2AG-863	FC2A-RER-8				
	FC2AG-905-940	FC2A-BER-8				
	FC2AG-940-974	FC2A-WER-8				
10"	FC2AG-1000	FC2A-RER-10	FC2A-CS-10	FBN-58-9	5/8" x 9"	6
	FC2AG-1075	FC2A-RER-10				
	FC2AG-1110-1140	FC2A-BER-10				
	FC2AG-1142-1177	FC2A-BER-10				
	FC2AG-1177-1212	FC2A-WER-10				
12"	FC2AG-1200	FC2A-BER-12	FC2A-CS-12	FBN-58-9	5/8" x 9"	7
	FC2AG-1275	FC2A-BER-12				
	FC2AG-1320-1350	FC2A-BER-12				
	FC2AG-1369-1404	FC2A-WER-12				
	FC2AG-1403-1438	FC2A-WER-12				
14"	FC2AG-1530-1570	FC2A-BER-14	FC2A-CS-14	FBN-58-105	5/8"x10-1/2"	9
	FC2AG-1600-1635	FC2A-RER-14				
	FC2AG-1640-1688	FC2A-WER-14				
16"	FC2AG-1740-1780	FC2A-BER-16	FC2A-CS-16	FBN-58-105	5/8"x10-1/2"	10
	FC2AG-1845-1897	FC2A-WER-16				
	FC2AG-1890-1920	FC2A-WER-16				
18"	FC2AG-1950-2000	FC2A-BER-18	FC2A-CS-18	FBN-58-105	5/8"x10-1/2"	11
20"	FC2AG-2160-2206	FC2A-BER-20	FC2A-CS-20	FBN-58-105	5/8"x10-1/2"	12
24"	FC2AG-2580-2632	FC2A-BER-24	FC2A-CS-24	FBN-58-135	5/8"x13-1/2"	14

To Order: Specify desired quantity and order using Catalog Number.

Ford Reducing Coupling

Style FRC

Ford Reducing Couplings are designed to connect different size water main pipes. Maximum pipe differential is one nominal pipe size. Material specifications for Style FRC Reducing Couplings are the same as those for Styles FC1 and FC2A Couplings. See page 4 for details.

Larger, Fabricated Steel Reducing Couplings are detailed in Catalog Section N.



Nom. PIPE SIZE	GASKET RANGE		END RING COLOR CODE	BY	GASKET RANGE		END RING COLOR CODE	NUMBER OF BOLTS	APPROX. WT. LBS.
	LARGE END	1ST. HALF CAT. No.			SMALL END	2ND. HALF CAT. No.			
4" x 3"	3.95 —	4.05	Red	X	3.45 —	3.60	Red	4	23
	4.45 —	4.60	Red		3.70 —	3.88	Black		
	4.80 —	5.00	Black		3.91 —	4.06	Black		
	4.92 —	5.16	Black		4.07 —	4.20	White/Gray		
	5.17 —	5.32	White/Gray		—	—	-		
6" x 4"	5.95 —	6.05	Red	X	3.95 —	4.05	Red	5	37
	6.54 —	6.76	Red		4.45 —	4.60	Red		
	6.81 —	7.12	Black		4.70 —	4.91	Black		
	7.17 —	7.37	Black		4.92 —	5.16	Black		
	7.37 —	7.60	White/Gray		5.17 —	5.32	White/Gray		
8" x 6"	7.95 —	8.05	Red	X	5.95 —	6.05	Red	6	47
	8.50 —	8.75	Red		6.54 —	6.76	Red		
	9.05 —	9.30	Black		6.81 —	7.12	Black		
	9.22 —	9.50	Black		7.17 —	7.37	Black		
	9.49 —	9.79	White/Gray		7.37 —	7.60	White/Gray		
10" x 8"	10.73 —	10.93	Red	X	7.95 —	8.05	Red	7	58
	11.04 —	11.40	Black		8.50 —	8.75	Red		
					8.76 —	9.17	Black		
					9.22 —	9.50	Black		
					9.49 —	9.79	White/Gray		
12" x 10"	12.72 —	12.84	Red	X	11.04 —	11.40	Black	8	68
	13.14 —	13.56	Black		11.50 —	11.75	White/Gray		
					11.80 —	12.12	White/Gray		

To order: Locate the gasket range that accommodates your pipe O.D. for both types of pipe. Use the top range of each gasket size to identify the part number. For example: to connect pipe with an O.D. of 8.63 to a pipe with an O.D. of 6.63, the Catalog Number is FRC-875-676.

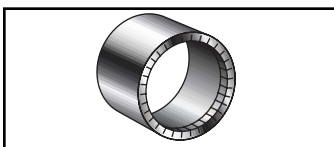
Caution: Customer is cautioned to provide proper thrust resistance to prevent movement on pipe.

Ford Insulating Boots

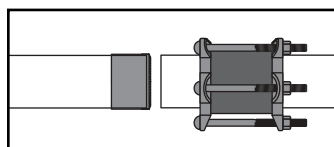
Style FIB

Ford Insulating Boots are used to provide a break in electrical conductivity between metallic pipes in order to control corrosion. The 7" long rubber boot slides over the end of the pipe and prevents contact with adjoining pipe. The FIB adds .25" to the outside diameter of the pipe and this is important to consider when ordering accompanying fittings.

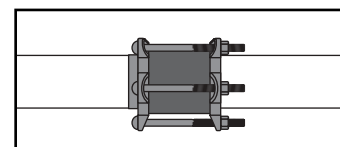
Material Specifications: Buna-N Rubber.



The Ford FIB



Place the FIB on one pipe end and the coupling on the adjoining pipe



Complete the installation according to the coupling instructions.

NOM. PIPE SIZE	PIPE O.D.	CATALOG NUMBER	APPROX. WT. LBS.
4"	4.80	FIB-480	.7
6"	6.90	FIB-690	1.0
8"	9.05	FIB-905	1.3
10"	11.10	FIB-1110	1.6
12"	13.20	FIB-1320	1.9

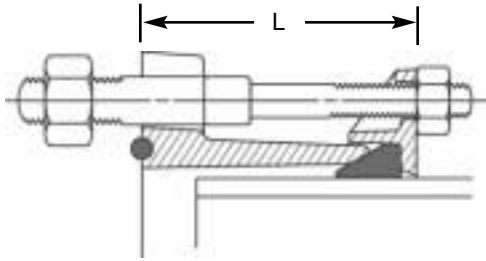
Note: Additional sizes built to the same specification are available upon request.

Ford Flanged Coupling Adapters

Style FFCA



Rated Working Pressure: 175 PSI



Ford Flanged Coupling Adapters are used to join plain end pipe to flanged fittings. The FFCA is designed without pipe stops and can be slid completely over the pipe to allow for clearance. The adapter is furnished with ductile Tee Head bolts and/or Cross Bolts. The flange has a built-in O-ring gasket. Larger, Fabricated Steel Flanged Coupling Adapters are detailed in Catalog Section N.

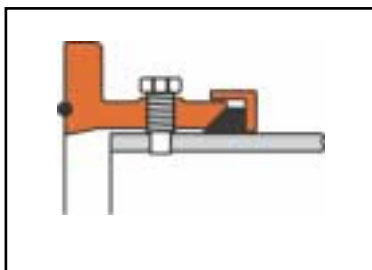
Material Specifications:

1. **Body** - Ductile Iron per ASTM A536 65-45-12.
2. **End Rings** - Ductile Iron per ASTM A536 65-45-12.
3. **Gaskets** - SBR per ASTM D2000 90M 4AA 810.
4. **Cross Bolts, T-Bolts & Nuts** - High Strength Low Alloy Steel per AWWA C-111 or Ductile Iron per ASTM A536.
5. **Finish** - Shop coat. Optional epoxy coating is available upon request.
6. **Flange** - Drilling per ANSI/AWWA C110/A21.10-86 and per ANSI B16.1 Class 125.
7. **Flange O-Ring** - Buna-N.

NOMINAL PIPE SIZE	PIPE O.D. RANGE	CATALOG NUMBER	END RING COLOR CODE	APPROX. ASSEMBLED LENGTH (L)	APPROX. WEIGHT LBS.	OPTIONAL ANCHOR STUDS	NO. AND SIZE OF CROSS BOLTS	NO. AND SIZE OF T-BOLTS
3"	3.45-3.60	FFCA-360	Red	3-7/8"	18	2	4 5/8" x 5/8"	N/A
	3.70-3.88	FFCA-388	Black		18			
	3.91-4.06	FFCA-406	Black		18			
	4.07-4.20	FFCA-420	White/Gray		22			
4"	4.45-4.60	FFCA-460	Red	3-1/2"	22	2	4 5/8" x 5/8"	4 5/8"
	4.70-4.91	FFCA-491	Black		22			
	4.92-5.16	FFCA-516	Black		22			
	5.17-5.32	FFCA-532	White/Gray		22			
6"	6.54-6.76	FFCA-676	Red	4-1/8"	34	2	4 3/4" x 5/8"	4 3/4"
	6.81-7.12	FFCA-712	Black		34			
	7.17-7.37	FFCA-737	Black		34			
	7.37-7.60	FFCA-760	White/Gray		34			
8"	8.50-8.75	FFCA-875	Red	4-3/16"	45	4	8 3/4" x 5/8"	N/A
	8.76-9.17	FFCA-917	Black		45			
	9.22-9.50	FFCA-950	Black		45			
	9.49-9.79	FFCA-979	White/Gray		45			
10"	10.69-10.85	FFCA-1085	Red	4-13/16"	55	4	12 7/8" x 5/8"	N/A
	11.04-11.40	FFCA-1140	Black		55			
12"	12.72-12.84	FFCA-1284	Red	4-3/4"	66	4	12 7/8" x 5/8"	N/A
	13.14-13.56	FFCA-1356	Black		66			

Note: End Rings for FFCA's are not interchangeable with the balance of the Ford Coupling System. For fabricated or larger flange coupling adapters, see Catalog Section N.

Optional Anchor Studs



Optional Anchor Studs: For two studs add "-AS2" to the Catalog Number.
For four studs add "-AS4" to the Catalog Number.
Example: FFCA-712-AS2

Ford Cut-In Couplings

Style FRR

Designed specifically for Cut-In applications

Ford Style FRR Cut-in Couplings allow the joining of pipe where the gap between the pipe ends is greater than normal. This fitting is commonly used to replace leaking couplings that require removal.



Material Specifications:

1. **Sleeve** - Ductile Iron per ASTM A536
2. **Repair Ring** - Ductile Iron per ASTM A536 or steel per ASTM A36.
3. **End Rings** - Ductile Iron per ASTM A536.
4. **Gaskets** - SBR per ASTM D2000 80M 4AA 809.
5. **Bolts** - Low alloy per ASTM 242 and AWWA C111. Bolts are 15-1/2" long.
6. **Finish** - Shop coat. Optional epoxy coating is available upon request.

NOM. PIPE SIZE	PIPE O.D. RANGE	CATALOG NUMBER	APPROX. WT. LBS.
4"	4.07-4.20	FRR-420	28
	4.80-5.14	FRR-514	38
	5.15-5.57	FRR-557	38
6"	6.90-7.20	FRR-720	61
	7.21-7.56	FRR-756	61
8"	9.05-9.40	FRR-940	82
	9.40-9.74	FRR-974	82
10"	11.10-11.40	FRR-1140	105
	11.42-11.77	FRR-1177	105
	11.77-12.12	FRR-1212	105
12"	13.20-13.50	FRR-1350	125
	13.69-14.04	FRR-1404	125
	14.03-14.38	FRR-1438	125

NOTE: A repair ring can be manufactured for any size 4" through 12" FC2A listed on page 6.

Ford End Cap Couplings

Style FEC

The Ford End Cap Coupling, Style FEC, is provided with 2" female iron pipe threads less the pipe plug. Blind end caps may be furnished upon request.



Material Specifications:

1. **Sleeve** - Ductile Iron per ASTM A536.
2. **End Rings** - Ductile Iron per ASTM A536.
3. **Gaskets** - SBR per ASTM D2000 80M 4AA 809.
4. **End Cap** - Steel with 2" female iron pipe threads.
5. **Bolts** - Low alloy per ASTM A242 and AWWA C111.
6. **Finish** - Shop coat. Optional epoxy coating is available upon request.

NOM. PIPE SIZE	PIPE O.D. RANGE	CATALOG NUMBER	APPROX. WT. LBS.	END CAP ONLY (INCLUDES GASKET)	
				FC1 COUPLING	FC2A COUPLING
4"	4.00	FEC-400	21	FEC1-4	FEC2-4
	4.50	FEC-450			
	4.80-5.14	FEC-514			
	5.15-5.57	FEC-557			
6"	6.00	FEC-600	31	FEC1-6	FEC2-6
	6.63	FEC-663			
	6.90-7.20	FEC-720			
	7.21-7.56	FEC-756			
8"	8.00	FEC-800	41	FEC1-8	FEC2-8
	8.63	FEC-863			
	9.05-9.40	FEC-940			
	9.40-9.74	FEC-974			
10"	10.75	FEC-1075	55	FEC1-10	FEC2-10
	11.10-11.40	FEC-1140			
	11.42-11.77	FEC-1177			
	11.77-12.12	FEC-1212			
12"	12.75	FEC-1275	66	FEC1-12	FEC2-12
	13.20-13.50	FEC-1350			
	13.69-14.04	FEC-1404			
	14.03-14.38	FEC-1438			

NOTE: Larger fabricated end cap couplings are listed in Section "N".

Note: Customer is cautioned to provide proper thrust resistance to prevent movement on pipe.

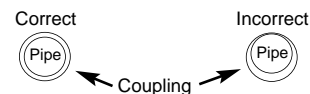
O.D. Chart

Nom. Pipe Size	PVC (Steel Size)	PVC C900	CAST IRON			ASBESTOS-CEMENT			STEEL		
	O.D.	O.D.	Classes		O.D.	Class	Machined End O.D.	Rough Barrel O.D. Min — Max	Type	O.D.	
			Pit	Spun							
1/2"	.84								STD.	.84	
3/4"	1.05								STD.	1.05	
1"	1.32								STD.	1.32	
1-1/4"	1.66								STD.	1.66	
1-1/2"	1.90								STD.	1.90	
2"	2.38	2.50			2.50				STD.	2.38	
2-1/2"	2.88								STD.	2.88	
3"	3.50		A	50 - 350	3.80	100	3.74	4.00	O.D.	3.00	
			B, C, D		3.96	150	3.84			STD.	3.50
						200	3.84			4.29	
4"	4.50	4.80	A	50 - 350	4.80	100	4.64	4.79 — 5.14	O.D.	4.00	
			B, C, D		5.00	150	4.81			STD.	4.50
						200	4.81			5.22 — 5.57	
6"	6.63	6.90	A	50 - 350	6.90	100	6.91	7.05 — 7.40	O.D.	6.00	
			B, C, D		7.10	150	6.91			STD.	6.63
			E, F		7.22	200	6.91			7.26 — 7.56	
8"	8.63	9.05	A, B	50 - 300	9.05	100	9.11	9.22 — 9.57	O.D.	8.00	
			C, D		9.30	150	9.11			STD.	8.63
			E, F		9.42	200	9.11			9.39 — 9.74	
10"	10.75	11.10	A, B	50 - 200	11.10	100	11.24	11.42 — 11.77	O.D.	10.00	
			C, D		11.40	150	11.66			STD.	10.75
			E, F		11.60	200	11.66			11.77 — 12.12	
12"	12.75	13.20	A, B	50 - 200	13.20	100	13.44	13.69 — 14.04	O.D.	12.00	
			C, D		13.50	150	13.92			STD.	12.75
			E, F		13.76	200	13.92			14.03 — 14.38	
14"	14.00	15.30	A, B	50 - 100	15.30	100	15.07	15.40 — 15.80	O.D.	14.00	
			C, D		15.65	150	16.22			STD.	
			E, F		15.98	200	16.22			16.48 — 16.88	
16"	16.00	17.40	A, B	50 - 100	17.40	100	17.14	17.54 — 17.94	O.D.	16.00	
			C, D		17.80	150	18.46			STD.	
			E, F		18.16	200	18.46			18.79 — 19.19	
18"	18.00	19.50	A, B	50 - 100	19.50	100	19.90	20.44	STD.	18.00	
			C, D		19.92	150	20.94				21.20
20"	20.00	21.60	A, B	50 - 100	21.60	100	22.12	22.50	STD.	20.00	
			C, D		22.06	150	23.28				23.54
24"	24.00	25.80	A, B	50 - 100	25.80	100	26.48	27.17	STD.	24.00	
			C, D		26.32	150	27.96				28.22

NOTE: Due to variations in outside diameters and specifications, dimensions listed are approximate. For this reason, determine the actual pipe O.D. before ordering Ford Pipe Coupling Products.

INSTALLATION INSTRUCTIONS FOR FORD FLEXIBLE COUPLINGS

- Measure pipe O.D. to ensure it is within the coupling range.
- Thoroughly clean each pipe end to a smooth, bare surface sufficiently longer than coupling length.
- Slide the proper end ring onto each pipe end.
- Lubricate the pipe ends and the gaskets before assembly to assist proper gasket seating. Use a non-petroleum based lubricant (suitable for potable water). In cold conditions, warm gasket to room temperature before installation to improve elasticity.
- Place the proper gasket on each pipe end with the beveled edge facing the pipe end.
- Slide center sleeve onto one pipe end, then center the sleeve over the pipe ends.
- Extremely Important: Block and shim pipe ends and coupling as needed to ensure that the coupling remains at an equal distance from the pipe circumference.**



- Push gaskets (by hand) into center sleeve evenly. Position end rings against the gaskets. Insert and tighten all bolts finger tight. Evenly tighten bolts in an alternating sequence being certain that end rings remain parallel to one another.

1/2" Bolts = 40 - 50 ft. lbs.
5/8" Bolts = 60 - 70 ft. lbs.

- Restrain if necessary, test and recheck bolt torque before backfilling. If a leak develops during testing tighten bolts to stop leak; however, extreme torque can over stress coupling components.

CAUTION

- Flexible couplings do not restrain axial movement of pipe.
- Flexible couplings are designed to float on pipe ends and are not designed to support the pipe.

Sleeve Length	5"	6"	7"	10"
Optimum Pipe End Gap	.50"	.50"	1.00"	1.00"

Section M

Ford Bolted Flex Couplings

Warranty

All merchandise is warranted to be free from defects in material and factory workmanship. We will provide, free of charge, new products in equal quantities for any that prove defective within one year from date of shipment from our factory. Manufacturer shall not be liable for any loss, damage, or injury, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability whatever in connection therewith. No claims for labor or consequential damage will be allowed. The foregoing may not be changed except by agreement signed by an officer of the manufacturer.

Please Note:

The Ford Meter Box Company considers the information in this catalog to be correct at the time of publication. Items and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



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